

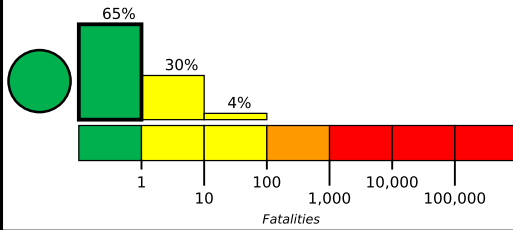
M 5.7, 22km W of Chilecito, Argentina

Origin Time: 2019-11-03 13:23:17 UTC (Sun 10:23:17 local)

Location: 29.1534° S 67.7245° W Depth: 114.7 km

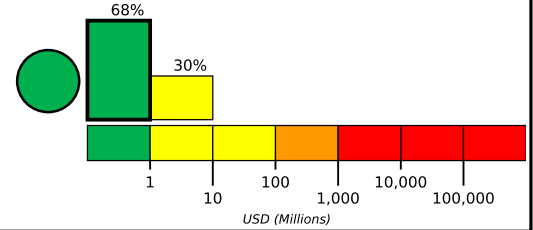
Created: 2 hours, 1 minute after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

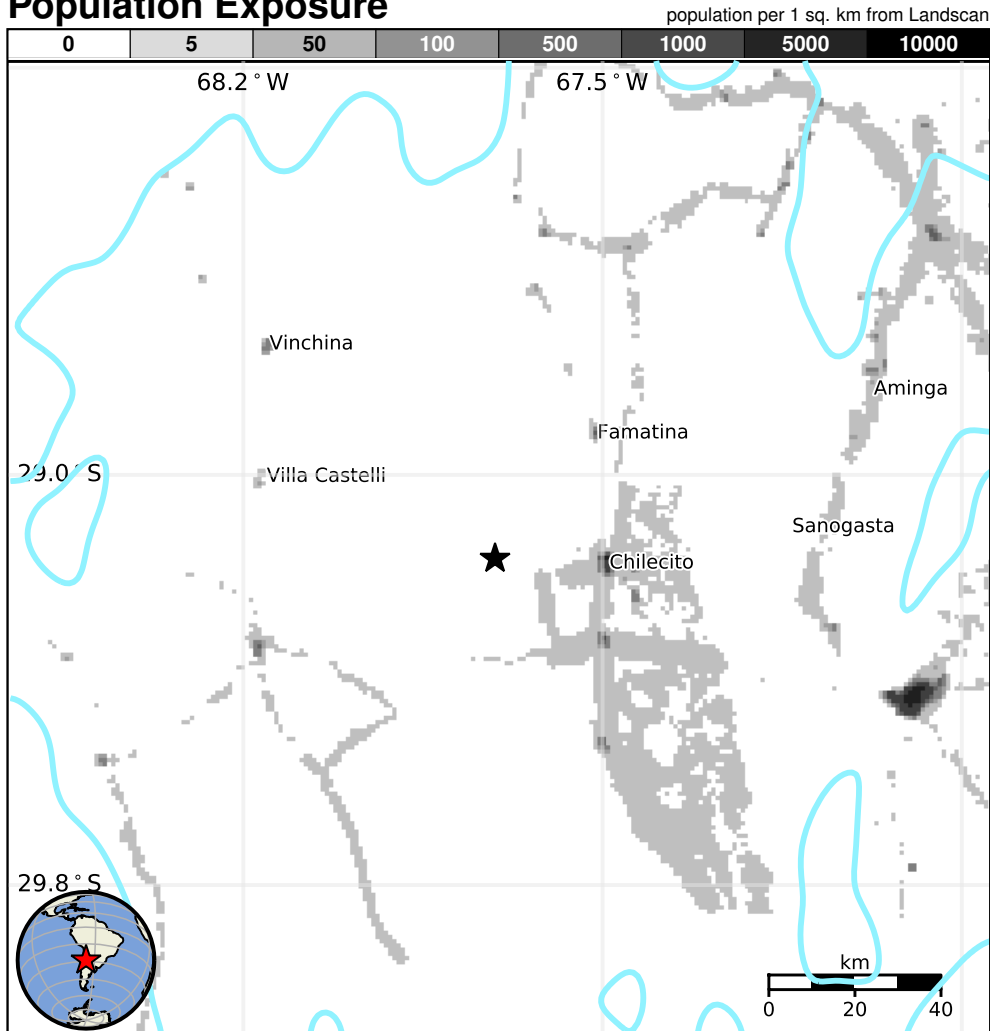


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	—*	1k*	302k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are adobe block with concrete bond beam and unreinforced brick with concrete floor construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1983-10-04	398	7.6	VII(30k)	5
2004-09-07	195	6.1	VIII(13k)	1
1977-11-23	214	7.4	IX(20k)	70

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Chilecito	42k
IV	Vinchina	3k
IV	Villa Union	<1k
IV	Villa Castelli	<1k
IV	Famatina	<1k
IV	Sanogasta	<1k
IV	La Rioja	163k
IV	San Blas de los Sauces	<1k
IV	Aminga	<1k
IV	Villa Bustos	2k
IV	Arauco	14k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us700062je#pager>

bold cities appear on map.

(k = x1000)

Event ID: us700062je